

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

86025-1

Name Tamarack Golf Course City East Brunswick State NJ

Independent Consultant Soil and Water Consulting Date 6/17/2021

Sample Location		PRACTICE GREEN				
Sample Identification						
Lab Number		2701-1				
Total Exchange Capacity (ME/100 g)		3.75				
pH	Buffer (SMP/Sikora)	7.5				
	H ₂ O (1:1)	6.4				
Organic Matter (360°C LOI) %		1.63				
Estimated Nitrogen Release lb/A		53				
ANIONS	SOLUBLE SULFUR*					
	PHOSPHORUS	ppm	12			
		MEHLICH III lb/A P as P ₂ O ₅	737			
		ppm of P	161			
		BRAY II lb/A P as P ₂ O ₅				
	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	938		
		ppm	469			
	MAGNESIUM*		lb/A	128		
		ppm	64			
	POTASSIUM*		lb/A	120		
		ppm	60			
	SODIUM*		lb/A	88		
		ppm	44			
BASE SATURATION PERCENT						
Calcium %			62.53			
Magnesium %			14.22			
Potassium %			4.10			
Sodium %			5.10			
Other Bases %			5.00			
Hydrogen %			9.00			
EXTRACTABLE MINORS						
Boron* (ppm)			0.46			
Iron* (ppm)			475			
Manganese* (ppm)			14			
Copper* (ppm)			2.79			
Zinc* (ppm)			9.56			
Aluminum* (ppm)			344			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)			0.6		
	NH ₄ -N (ppm)			3.0		

* Mehlich III Extractable

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Sample Location	WEST COURSE	GREEN	GREEN	GREEN	GREEN	GREEN
Sample Identification		1	3	5	6	15
Lab Number		2702-1	2703-1	2704-1	2705-1	2706-1
Total Exchange Capacity (ME/100 g)		3.98	5.20	4.57	4.54	4.44
pH	Buffer (SMP/Sikora)	7.5	7.5	7.5	7.6	7.4
	H ₂ O (1:1)	6.4	6.0	6.3	5.9	5.8
Organic Matter (360°C LOI) %		1.41	2.17	1.68	1.89	2.17
Estimated Nitrogen Release	lb/A	48	63	54	58	63
ANIONS	SOLUBLE SULFUR*					
	ppm	10	17	16	17	16
	MEHLICH III lb/A P as P ₂ O ₅	426	550	550	472	302
	ppm of P	93	120	120	103	66
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	978	1190	1092	978
	ppm		489	595	546	489
	MAGNESIUM*	lb/A	142	192	174	156
	ppm		71	96	87	78
	POTASSIUM*	lb/A	160	156	156	150
	ppm		80	78	78	75
	SODIUM*	lb/A	84	76	92	84
	ppm		42	38	46	42
BASE SATURATION PERCENT						
Calcium	%	61.43	57.21	59.74	53.85	52.82
Magnesium	%	14.87	15.38	15.86	14.32	12.20
Potassium	%	5.15	3.85	4.38	4.24	4.10
Sodium	%	4.59	3.18	4.38	4.02	4.11
Other Bases	%	5.00	5.40	5.10	5.60	5.80
Hydrogen	%	9.00	15.00	10.50	18.00	21.00
EXTRACTABLE MINORS						
	Boron* (ppm)	0.33	0.49	0.60	0.49	0.54
	Iron* (ppm)	351	411	434	419	408
	Manganese* (ppm)	13	12	16	15	13
	Copper* (ppm)	2.93	2.91	2.45	2.75	2.69
	Zinc* (ppm)	7.46	8.33	7.24	8.57	8.28
	Aluminum* (ppm)	383	357	332	409	412
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	< 0.5	0.8	< 0.5	< 0.5	0.6
	NH ₄ -N (ppm)	3.8	3.2	2.7	2.6	3.0

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Sample Location	EAST COURSE	GREEN	GREEN			
Sample Identification		1	3			
Lab Number		2707-1	2708-1			
Total Exchange Capacity (ME/100 g)		4.49	6.10			
pH	Buffer (SMP/Sikora)	7.5	7.4			
	H ₂ O (1:1)	6.1	6.3			
Organic Matter (360°C LOI) %		2.15	2.65			
Estimated Nitrogen Release	lb/A	63	73			
ANIONS	SOLUBLE SULFUR*					
	ppm	14	31			
	MEHLICH III lb/A P as P ₂ O ₅	389	270			
	ppm of P	85	59			
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1170	1578		
	ppm		585	789		
	MAGNESIUM*	lb/A	122	214		
	ppm		61	107		
	POTASSIUM*	lb/A	118	164		
	ppm		59	82		
	SODIUM*	lb/A	30	46		
	ppm		15	23		
BASE SATURATION PERCENT						
	Calcium %		65.14	64.67		
	Magnesium %		11.32	14.62		
	Potassium %		3.37	3.45		
	Sodium %		1.45	1.64		
	Other Bases %		5.20	5.10		
	Hydrogen %		13.50	10.50		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.60	0.50		
	Iron* (ppm)		408	363		
	Manganese* (ppm)		9	18		
	Copper* (ppm)		2.46	2.93		
	Zinc* (ppm)		7.19	6.96		
	Aluminum* (ppm)		392	417		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	0.5		
	NH ₄ -N (ppm)		2.4	2.9		

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